

<110> Sheppard, Paul O.
Jelinek, Laura J.

<130> 97-11C2

<151> 1999-05-25

<151> 1998-07-02

<151> 1998-06-17

<151> 1998-05-19

<151> 1997-07-03

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Met Lys Gly Trp

ggt tgg ctg gcc ctg ctt ctg ggg gcc ctg ctg gga acc gcc tgg gct 163
 Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly Thr Ala Trp Ala
 5 10 15 20
 cgg agg agc cag gat ctc cac tgt gga gca tgc agg gct ctg gtg gat 211
 Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
 25 30 35
 gaa cta gaa tgg gaa att gcc cag gtg gac ccc aag aag acc att cag 259
 Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln
 40 45 50
 atg gga tct ttc cgg atc aat cca gat ggc agc cag tca gtg gtg gag 307
 Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu
 55 60 65
 gta act gtt act gtt ccc cca aac aaa gta gct cac tct ggc ttt gg 354
 Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His Ser Gly Phe
 70 75 80
 atgaaattcg attgcttaaa aaggaccttg gtttaataga aatgaagaaa acagactcag 414
 aaaaaagatt tggctctgtc tcatttgga gaagctgcag gcttattccc catgcacttg 474
 cttcctggct gcaaacctta atactttgtt tatgctgtag aatttgtag caaacaggga 534
 gtccatgatca gcacccttct ccacatccac atgactgggtt tttaatgtag cactgtggta 594
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 Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg
 20 25 30
 Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys
 35 40 45
 Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
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 Ser Val Val Glu Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His
 65 70 75 80

Ser Gly Phe

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Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp
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 Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln
 20 25 30
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 35 40 45
 Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His Ser Gly Phe Gly
 50 55 60

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Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp Glu Leu
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 20 25 30
 Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu Val Thr
 35 40 45
 Val Thr Val Pro Pro Asn Lys Val Ala His Ser Gly Phe Gly
 50 55 60

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Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp Glu Leu
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 Glu Trp Glu Ile Ala Gln Val Asp Pro
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 Gly Phe Gly
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 tctgggggcc ctgctgggaa ccgcctgggc tcggaggagc agggatctcc actgtggagc 180
 atgcagggct ctggtggatg aactagaatg ggaaattgcc caggtggacc ccaagaagac 240
 cattcagatg ggatctttcc ggatcaatcc agatggcagc cagtcagtgg ttgaggtaac 300
 tgttactgtt cccccaaca aagtagctca ctctggcttt agatgaattt cgatttattt 360
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Met Lys Gly Trp

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ggt tgg ctg gcc ctg ctt ctg ggg gcc ctg ctg gga acc gcc tgg gct 163

Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly Thr Ala Trp Ala

5 10 15 20

cgg agg agc cag gat ctc cac tgt gga gca tgc agg gct ctg gtg gat 211

Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp

25 30 35

gaa cta gaa tgg gaa att gcc cag gtg gac ccc aag aag acc att cag 259

Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys Lys Thr Ile Gln

40 45 50

atg gga tct ttc cgg atc aat cca gat ggc agc cag tca gtg gtg gag 307

Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln Ser Val Val Glu

55 60 65

gtg cct tat gcc cgc tca gag gcc cac ctc aca gag ctg ctg gag gag 355

Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu Leu Leu Glu Glu

70 75 80

ata tgt gac cgg atg aag gag tat ggg gaa cag att gat cct tcc acc 403

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<400> 17
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20 25 30
Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys
35 40 45

Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
 50 55 60
 Ser Val Val Glu Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu
 65 70 75 80
 Leu Leu Glu Glu Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile
 85 90 95
 Asp Pro Ser Thr His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn
 100 105 110
 Gly Glu Ser Ser Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp
 115 120 125
 Ile Ser Gly Thr Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr
 130 135 140
 Glu Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys
 145 150 155 160
 Asp Lys Leu Cys Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His
 165 170 175
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<220>
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 cagatctccg cttaggtgcc tagttaagtg cgggaagctg ggccaggcgg tcaactggcca 180
 ccctgaacct ggcgggagcc ggagcgtctt ggagaagccg ggacagcccc gtttttccca 240
 gccagctgct aggggttgga cccacagaaa acaaagttag agtccggctg ctttccagag 300
 cctggggccac ggcggcggcc gtgggagcag aggtggagcg accctgttac actaaag atg 360
 Met
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aaa ggc tgg ggt tgg cta gcc cta ctt ttg ggg gtc ctg ctg gga act 408
 Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Val Leu Leu Gly Thr
 5 10 15


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acacccccag gaggggaaga tggcagcatt gccttttata ttacgttttt atggaaatga 1003
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			20						25				30		
Met	Gly	Ser	Phe	Arg	Ile	Asn	Pro	Asp	Gly	Ser	Gln	Ser	Val	Val	Glu
		35					40					45			
Val	Pro	Tyr	Ala	Arg	Ser	Glu	Ala	His	Leu	Thr	Glu	Leu	Leu	Glu	Glu
	50					55					60				
Val	Cys	Asp	Arg	Met	Lys	Glu	Tyr	Gly	Glu	Gln	Ile	Asp	Pro	Ser	Thr
65					70					75					80
His	Arg	Lys	Asn	Tyr	Val	Arg	Val	Val	Ser	Arg	Asn	Gly	Glu	Ser	Ser
			85						90					95	
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<210> 23
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<210> 24
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Met Gly Ser
35